# Math 13 – Fall 2016

## My Contact Information:

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## Content:

This course is a sequel to Math 8 and provides an introduction to calculus of vector-valued functions. Topics include differentiation and integration of parametrically defined functions with interpretations of velocity, acceleration, arc length and curvature. Other topics include iterated, double, triple, and surface integrals including change of coordinates. The remainder of the course is devoted to vector fields, line integrals, Green's theorem, curl and divergence, and Stokes' theorem.

## Textbook:

Calculus Early Transcendentals, Multivariable, 3rd edition, by Rogawski and Adams. ISBN: 978-1464171758. We will not be using the online homework system, so you do not need to buy a textbook with a code. **Note:** This "multivariable" version should be cheaper than the regular verison.

## Canvas:

Student grades will be posted on Canvas, and may be accessed through http://canvas.dartmouth.edu. All other course material will be posted on our course page at http://jaypantone.com/courses/fall16math13. Please do not email me through the Canvas system.

## X-hour:

We will use the X-hour occasionally throughout the quarter, so be sure not to schedule anything during that time (12:15pm - 1:05pm, Tuesday).

## Homework:

Homework will consist of daily suggested problems from the textbook that will not be graded, and weekly exam-style problems that will be graded. Weekly homework will be assigned every Wednesday and collected the following Wednesday. Late homework will be accepted for up to 24 hours, at a 50% penalty, and the lowest homework grade will be dropped at the end of the quarter.

In addition to the weekly homework assignments, you should expect to need to do some or all of the suggested daily problems in order to have enough practice to do well on the exams.

## Homework Collaboration Policy:

It can be very helpful to study and work with a group. This type of cooperative learning is encouraged; however, be sure that you have a thorough understanding of the concepts as well as the mathematical steps used to solve a problem. You must be able to work through the problems on your own. Each student must complete her or his assignment individually and independently and must turn in her or his own work. Each homework assignment must list anybody with whom you discussed the problems at the top of the first page.

## Returned Papers:

You must retain all returned papers in case of any discrepancy with the recorded grades on Canvas. I cannot correct any mistakes in grading or recording of scores without the original document. All concerns regarding grades on specific assignments, quizzes or exams must be handled within one week of the return of the paper.

## Exams:

There will be two midterm exams and a final exam. The final exam will be cumulative, but with more weight on the material covered after the second midterm. The dates and locations for the exams will be posted on the course webpage and announced in class.

If you must miss an exam due to a College activity, you must seek approval from me at least two weeks prior to the exam day.

## Grading Scheme:

Course scores are weighted as follows:

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| Homework | 15% |
| Midterm Exam 1 | 25% |
| Midterm Exam 2 | 25% |
| Final Exam | 35% |

## Disabilities

Students with disabilities who will be taking this course and may need disability-related classroom accommodations are encouraged to make an appointment to see me as soon as possible. Also, they should stop by the Academic Skills Center in Collis Center to register for support services.

## Religious Observances

Some students may wish to take part in religious observances that occur during this academic term. If you have a religious observance that conflicts with your participation in the course, please meet with me before the end of the second week of the term to discuss appropriate accommodations.